

What is claimed is:

1. A process of manufacturing a designed fiberglass wall covering
5 comprising:
 - (a) providing a fiberglass fabric;
 - (b) impregnating the glass fabric by applying a chemical dispersion to the glass fabric;
 - (c) drying the treated glass fabric;
 - 10 (d) subsequently forming a first image coating on one side of said treated glass fiber fabric by selectively applying a hydrophobic primary image coating to a portion of the treated glass fabric;
 - (e) subsequently forming a second image coating on said first image coating by selectively applying the coating to a portion of the
15 treated glass fabric, said coating applied from a chemical mixture comprising a polymeric binder and expandable chemicals, with said second coating being capable of creating distinct image pattern upon heating;
- 20 2. The process of claim 1 wherein the fiberglass fabric is a woven or non woven fabric.
3. The process of claim 1 wherein the chemical dispersion is applied in a continuous impregnation process.
- 25 4. The process of claim 1 wherein the chemical dispersion is water based and comprises starch and a polymeric binder.
5. The process of claim 4 wherein the chemical dispersion comprises also

a cross linking agent.

- 5 6. The process of claim 1 wherein the chemical dispersion comprises a mixture of potato starch, vinyl acetate ethylene copolymer, and an ammonium zirconium cross-linker.
- 10 7. The process of claim 6 wherein the potato starch comprises 65-75%, the vinyl acetate ethylene copolymer 20-30%, and ammonium zirconium cross-linker 2-6% of dry substance total, further wherein the coating is water based and has a dry substance percentage in the chemical bath of between 3 and 15 weight percent.
- 15 8. The process of claim 1 wherein the drying of the treated and / or coated glass fabric is accomplished in an air dryer or by contact drying on heated cylinders.
- 20 9. The process of claim 1 wherein the selective applying of hydrophobic primary image coating is accomplished with a rotating screen applicator.
- 25 10. The process of claim 1 wherein the hydrophobic primary image coating comprises a hydrophobic binder or varnish.
11. The process of claim 10 wherein the binder or varnish comprises ethylene vinyl acetate copolymer.
12. The process of claim 11 wherein the binder or varnish further comprises a thickener and a de-foamer.
13. The process of claim 12 wherein the binder or varnish further comprises

a coloring pigment.

14. The process of claim 1 wherein the hydrophobic primary image coating comprises a paint or a water based paint.

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15. The process of claim 14 wherein the paint is a metallic paint.

16. A process according to claim 1 wherein said polymeric binder of the second image coating is an acrylic latex binder.

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17. A process according to claim 1 wherein said expandable chemicals of the second image coating are thermoplastic microspheres.

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18. A process according to claim 1 wherein said chemical mixture of the second image coating also contains rheology modifier and de-foaming agents.

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19. A process according to claim 1 wherein said chemical mixture of the second image coating also includes pigments.

20. A process according to claim 1 wherein the application of said chemical mixture of the second image coating is accomplished through the use of a rotating screen applicator.

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21. A glass fiber wall covering with a distinct image pattern formed by the process of claim 1.

22. A glass fiber rolled good comprising a fiberglass fabric having applied thereon a secondary volumetric image coating to a portion of the surface

of the glass fabric, wherein prior to the secondary volumetric image coating a hydrophobic image coating was applied to a portion of the surface of the glass fabric, wherein the glass fabric was impregnated with a chemical dispersion prior to the hydrophobic primary image coating, whereby the second dried coating exhibits a volumetric image pattern, and whereby when a final coat is applied, selective areas will absorb and resist adsorbents of the final coating to create a plastic image comprising zones of relative less and more color or reflectance.

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